IMPLEMENTATION SCHEDULE

The Implementation Schedule that follows lists recovery task priorities; task numbers; task descriptions; duration of tasks; potential or participating responsible parties; total cost estimate and estimates for the next five years, if available; and comments. These tasks, when accomplished, will lead to recovery of bull trout in the coterminous United States as discussed in Part II of this recovery plan.

The Coeur d'Alene Recovery Unit Team envisions most recovery measures for bull trout and bull trout habitat as falling under the two primary categories of "protection" and "restoration" and perceives that the emphasis in implementing recovery measures should first be in the protection of existing bull trout local populations, their habitat, and priority water bodies vital to their survival. Resources required to protect high-quality habitat and local populations would, in general, be less than what is required for restoration activities. The Coeur d'Alene Recovery Unit Team does acknowledge, however, that many restoration activities will be necessary to recover bull trout throughout the Coeur d'Alene Recovery Unit. Therefore, recovery unit team developed the above criteria for selecting streams that should receive the highest priority for restoration and recovery activities. In addition, the recovery unit team identified Coeur d'Alene Lake and the mainstem reaches of the Coeur d'Alene, North Fork Coeur d'Alene, and St. Joe Rivers as priority water bodies that should also receive the highest priority for restoration and recovery activities. It is important to note that some restoration activities may take many years to complete and that even more time (10 to 20 years) may be required for results to be realized. Therefore, these activities need to be accomplished early in the implementation of recovery measures.

Parties with authority, responsibility, or expressed interest in implementing a specific recovery task are identified in the Implementation Schedule. Listing a responsible party does not imply that prior approval has been given or require that party to participate or expend any funds. However, willing

participants may be able to increase their funding opportunities by demonstrating that their budget submission or funding request is for a recovery task identified in an approved recovery plan and is, therefore, part of a coordinated effort to recover bull trout. In addition, section 7 (a)(1) of the Endangered Species Act directs all Federal agencies to use their authorities to further the purposes of the Act by implementing programs for the conservation of threatened or endangered species.

Following are definitions to column headings and keys to abbreviations and acronyms used in the Implementation Schedule:

<u>Priority Number</u>: All priority 1 tasks are listed first, followed by priority 2 and priority 3 tasks.

Priority 1: All actions that must be taken to prevent extinction or to prevent the species from declining irreversibly in the foreseeable future.

Priority 2: All actions that must be taken to prevent a significant decline in species population or habitat quality or to prevent some other significant negative effect short of extinction.

Priority 3: All other actions necessary to provide for full recovery (or reclassification) of the species.

<u>Task Number and Task Description</u>: Recovery tasks as numbered in the recovery outline. Refer to the action narrative for task descriptions.

<u>Task Duration</u>: Expected number of years to complete the corresponding task. Study designs can incorporate multiple tasks, which, when combined, may reduce the time needed for completion.

<u>Responsible or Participating Party</u>: The following organizations are those with responsibility or capability to fund, authorize, or carry out the corresponding recovery task.

Federal agencies:

BLM Bureau of Land Management

EPA United States Environmental Protection Agency

FEMA Federal Emergency Management Agency
FERC Federal Energy Regulatory Commission
NRCS National Resources Conservation Service

USCOE U.S. Corps of Engineers

USDOT U.S. Department of Transportation

USFS U.S. Forest Service

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

State agencies:

IDEQ Idaho Department of Environmental Quality

IDFG Idaho Department of Fish and Game

IDL Idaho Department of Lands

ITD Idaho Transportation Department

Others:

Counties Shoshone, Kootenai, Benewah, and Latah Counties

SWCD Soil and Water Conservation Districts

Tribe Coeur d''Alene Tribe

Boldface type indicates the agency or agencies that have the lead role for task implementation and coordination, though not necessarily sole responsibility.

<u>Cost Estimates</u>: Cost estimates are rough approximations and provided only for general guidance. Total costs are estimated for the duration of the task, are itemized annually for the next five years, and includes estimates of expenditures

by local, Tribal, State, and Federal governments and by private business and individuals.

An asterisk (*) in the total cost column indicates ongoing tasks that are currently being implemented as part of normal agency responsibilities under existing authorities. Because these tasks are not being done specifically or solely for bull trout conservation, they are not included in the cost estimates. Some of these efforts may be occurring at reduced funding levels and/or in only a small portion of the watershed.

Double asterisk (**) in the total cost column indicates that estimated costs for these tasks are not determinable at this time. Input is requested to help develop reasonable cost estimates for these tasks.

Triple asterisk (***) indicates costs are combined with or embedded within other related tasks.

Chapter 15 - Coeur d'Alene

	Iı	mplementation schedu	le for the b	oull trout recov	ery plan:	Coeur d	'Alene	Lake B	asin Re	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	es (\$1,000))		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
1	1.1.1	Identify problem roads that cause sediment delivery	25	USFS, IDEQ, IDL, ITD, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.1.2	Reduce general sediment sources	25	IDL, USFS, BLM, Tribe, IDEQ	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.1.8	Identify sources of water temperature increases	2	IDEQ, EPA, USFS, Tribe, BLM	150	100	50	-	-	-	Some cost overlap with stream habitat surveys
1	1.1.12	Identify cold groundwater sources	2	IDEQ, USFS, BLM, Tribe	75	50	25	-	-	-	Preservation activities, no restoration
1	1.1.14	Complete an assessment of "leave tree" requisites	1	IDL, USFS, BLM, IDEQ, USFWS, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies

	Iı	nplementation schedu	le for the b	ull trout recov	ery plan: (Coeur d	'Alene	Lake Ba	asin Rec	covery U	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	s (\$1,000))		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
1	1.1.16	Contribute to development of total maximum daily loads	25	IDEQ, EPA, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.2.1	Identify barriers to fish passage	3	IDL, USFS, BLM, Tribe	50	-	30	20	-	-	Funding covered by another program or agencies
1	1.2.2	Remedy fish passage barriers	5	USFS, IDL, IDFG, BLM, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.3.1	Conduct watershed analyses	10	USFS, IDL, BLM, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.3.2	Identify stream channel degradation	25	IDEQ, USFS, BLM, Tribe	500	100	50	50	50	50	Repeat in selected problem areas every 5th year, after year 5

	Iı	mplementation schedu	le for the b	ull trout recov	ery plan: (Coeur d	'Alene	Lake B	asin Re	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	es (\$1,000	0)		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
1	1.3.3	Repair streambanks	25	USFS, IDEQ, BLM, NRCS, Tribe, SWCD	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.3.6	Revegetate denuded riparian areas	10	USFS, IDEQ, BLM, NRCS, Tribe, SWCD, USFWS	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.3.9	Implement appropriate riparian management guidelines	25	USFS, IDEQ, BLM, NRCS, Tribe, SWCD	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.3.15	Manage beaver dams	25	USFS, IDFG, BLM, Tribe	25	1	1	1	1	1	Funding covered by another program or agencies

	Iı	mplementation schedu	le for the b	oull trout recov	ery plan:	Coeur d	'Alene	Lake Ba	asin Re	covery	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	s (\$1,000))		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
1	1.3.16	Evaluate overwintering habitat	5	USFS, IDFG , BLM, Tribe	250	-	100	100	50	-	Possible graduate student project
1	1.3.17	Improve overwintering habitat	25	USFS, BLM, IDL, Tribe,	*	-	-	-	-	-	Funding covered by another program or agencies
1	1.5.3	Conduct watershed assessments	5	USFS, IDFG, IDL, IDEQ, BLM, Tribe	1,000	200	200	200	200	200	Other tasks included under this funding
1	4.1.1	Conduct genetic inventory	25	USFWS, USFS, IDFG, IDL, IDEQ, BLM, Tribe	*	-	-	-	-	-	Costs covered in Chapter 1
1	5.2.1	Conduct limiting factors analyses	5	IDFG, USFS, EPA, USFWS, Tribe	100	-	50	50	-	-	Possible graduate student project

	I	mplementation schedu	le for the b	oull trout recov	ery plan: (Coeur d	'Alene	Lake Ba	asin Rec	covery l	Unit	
Priority	Task	Task description	Task	Responsible		Cost	estimate	s (\$1,000))		Comments	
number	number		duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5		
1	5.2.2	Conduct feasibility studies	5	IDFG, Tribe, USFWS, IDL, IDEQ, BLM, USFS	200	60	60	40	20	20	Possible graduate student project; funding covered by another program or agencies	
1	6.3.1	Fully implement State habitat protection laws	25	IDL	*	-	-	-	-	-	Funding covered by another program or agencies	
1	7.1.1	Develop an Implementation Plan	2	USFWS, USFS, EPA, IDFG, BLM, Tribe, IDEQ, NRCS	25	20	5	-	-	-		
2	1.1.3	Gauge sediment from roads	2	IDL, USFS, BLM, Tribe	200	-	100	100	-	-	Some funding covered by another program or agencies	

	Iı	nplementation schedu	le for the b	ull trout recov	ery plan: (Coeur d	'Alene	Lake Ba	asin Rec	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	s (\$1,000))		Comments
number	number		duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
2	1.1.4	Upgrade problem roads	5	USFS, IDL, Counties, ITD, BLM, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
2	1.1.13	Provide literature on proper road management	25	USFS, USFWS, BLM, Tribe	10	2	-	-	-	-	Provide information every 5 years
2	1.1.15	Enforce and evaluate existing mining regulations	25	IDEQ, BLM, USFS, USFWS, EPA, IDFG, Tribe, IDWR	*	-	-	-	-	-	Funding covered by another program or agencies
2	1.1.17	Identify sources of mining contamination	25	EPA, IDEQ, BLM, USFS, Tribe, USFWS	*	-	-	-	-	-	Funding covered by another program or agencies

	Iı	mplementation schedu	le for the b	oull trout recov	ery plan: (Coeur d	'Alene	Lake Ba	asin Re	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	s (\$1,000))		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
2	1.1.18	Implement Comprehensive Environmental Response, Compensation, and Liability Act activities	25	USFS, BLM, EPA, IDEQ, USFWS, Tribe	*	-	-	-	-	-	Costs associated with other cleanup activities
2	1.3.4	Reduce campsite impacts	25	USFS, BLM	*	-	-	-	-	-	Funding covered by another program or agencies
2	1.3.7	Evaluate current and legacy effects	10	USFS, IDL, BLM, Tribe	100	-	50	50	-	-	Some funding covered by another program or agencies
2	1.3.8	Reduce current and legacy effects	25	USFS, BLM, IDL, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies

	Iı	nplementation schedu	le for the b	oull trout recov	ery plan: (Coeur d	'Alene	Lake Ba	asin Re	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	s (\$1,000))		Comments
number	number		duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
2	1.3.10	Protect roadless condition	25	USFS, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
2	1.3.12	Provide for incentives to restore proper stream function	5	NRCS, SWCD, Counties, Tribe, USFWS	58	30	7	7	7	7	Some funding covered by another program or agencies
2	1.3.13	Conduct stream surveys	5	USFS, IDL, BLM, IDEQ, Tribe, USFWS	200	100	100	-	-	-	Some funding covered by another program or agencies
2	1.3.14	Implement buyout programs	25	USFWS, FEMA, Counties	*	-	-	-	-	-	Establish a bank of funds for these types of activities

	Iı	mplementation schedu	le for the b	oull trout recov	ery plan:	Coeur d	'Alene	Lake Ba	asin Re	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	es (\$1,000))		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
2	1.3.18	Improve instream habitat	25	USFS, BLM, Tribe	100	-	-	50	50	-	Some funding covered by another program or agencies
2	1.4.1	Reduce impacts of Post Falls Dam	25	USFWS, Tribe, IDFG, IDEQ, FERC, EPA	*	-	-	-	-	-	
2	1.4.2	Conduct limiting factors analyses for dam operations	5	USFWS, Tribe, IDFG, IDEQ	*	-	-	-	-	-	
2	1.4.3	Identify research needs related to Post Falls Dam	5	USFWS, Tribe, IDFG, IDEQ	*	-	-	-	-	-	
2	1.5.1	Identify sediment sources in upland areas	25	USFS, IDL, IDEQ, BLM, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies

	Iı	mplementation schedu	le for the b	ull trout recov	ery plan:	Coeur d	'Alene	Lake Ba	asin Rec	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	s (\$1,000))		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
2	1.5.5	Determine need for prescribed fires	25	USFS, IDL, BLM, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
2	2.4.1	Develop protocols for suppressing nonnative fishes	3	IDFG, Tribe, USFS, USFWS	40	-	20	20	-	-	Some funding covered by another program or agencies
2	2.5.1	Control nonnative fishes in migratory corridors	5	IDFG, Tribe, USFWS	150	-	-	50	50	50	Some funding covered by another program or agencies
2	2.5.2	Experimentally remove nonnative fishes in spawning and rearing streams	1	IDFG, USFS, Tribe, USFWS,	150	-	-	50	50	50	Some funding covered by another program or agencies
2	4.2.1	Determine where barriers to migration exist	5	IDFG, USFS, BLM, Tribe, USFWS	*	-	-	-	-	-	Funding covered by another program or agencies

	Iı	mplementation schedu	le for the b	oull trout recov	ery plan:	Coeur d	'Alene	Lake B	asin Re	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	es (\$1,000))		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
2	6.1.1	Use the Lake Management Plan	25	IDEQ*, IDFG, Tribe, USFWS	*	-	-	-	-	-	Funding covered by another program or agencies
2	6.1.2	Use the proposed Coeur d'Alene Basin Plan	25	EPA, IDEQ, IDFG, USFWS, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
3	1.1.5	Assess impacts from trail systems	5	USFS, USFWS	50	-	25	25	-	-	Some funding covered by another program or agencies
3	1.1.6	Develop sediment monitoring plan	5	IDEQ, IDL, USFS, NRCS	*	-	-	-	-	-	Funding covered by another program or agencies
3	1.1.7	Identify water quality problems	25	IDEQ, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies

	Iı	nplementation schedu	le for the b	oull trout recov	ery plan:	Coeur d	'Alene	Lake B	asin Re	covery l	U nit
Priority	Task	Task description	Task	Responsible		Cost	estimate	es (\$1,000	0)		Comments
number	number	·	duration years	parties	Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
3	1.1.9	Assess grazing impacts	25	USFS, BLM, NRCS, Tribe, IDL	*	-	-	-	-	-	Funding covered by another program or agencies
3	1.1.10	Identify trespass grazing	25	USFS	20	10	-	-	-	10	Funding covered by another program or agencies
3	1.1.11	Identify the need for gauging stations	5	USGS, USFWS	5	5	-	-	-	-	Funding covered by another program or agencies
3	1.2.3	Monitor success of barrier removal activities	25	USFS, IDL, IDEQ, BLM, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
3	1.2.4	Eliminate entrainment risks	3	USFS, Tribe, BLM, IDFG	5	-	-	5	-	-	Some funding covered by another program or agencies

Implementation schedule for the bull trout recovery plan: Coeur d'Alene Lake Basin Recovery Unit											
Priority number	Task number	Task description	Task duration years	Responsible parties		Cost	Comments				
					Total cost	Year	Year 2	Year 3	Year 4	Year 5	
3	1.3.5	Improve grazing practices	25	USFS, IDL, BLM, Tribe	*	-	1	-	-	-	Funding covered by another program or agencies
3	1.3.11	Provide information about stream and riparian function	25	IDEQ, USFWS, FEMA, Tribe, NRCS	40	-	20	20	-	-	Some funding covered by another program or agencies
3	1.5.2	Investigate impacts from development	10	IDEQ, USFWS, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
3	1.5.4	Determine changes to the hydrograph	10	USFS, IDL, Tribe, BLM	*	-	-	-	-	-	Funding covered by another program or agencies
3	3.2.1	Provide educational opportunities	25	IDFG, USFWS, Tribe, USFS	*	-	-	-	-	-	

Implementation schedule for the bull trout recovery plan: Coeur d'Alene Lake Basin Recovery Unit											
Priority number	Task number	Task description	Task duration years	Responsible parties	Cost estimates (\$1,000)						Comments
					Total cost	Year 1	Year 2	Year 3	Year 4	Year 5	
3	6.1.3	Conduct long-term monitoring of clean- up activities	25	EPA, IDEQ, IDFG, USFWS, USFS, Tribe	*	-	-	-	-	-	Funding covered by another program or agencies
3	7.3.1	Conduct annual meetings	25	USFWS, Tribe, IDFG, IDEQ, USFS, BLM, conservation groups, industry	*	-	-	-	-	-	Costs covered under 7.3.1

Estimated cost is \$ 3.9 million over 25 years.